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04/08/97

PATENT
15275/8610 (Dobbins 2-1)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Reissue Application No.:)
Filed:)
U.S. Patent No.: 5,043,002)
Granted: August 27, 1991)
Patentees: Michael S. Dobbins)
Robert E. McLay)
For: METHOD OF MAKING FUSED SILICA BY)
DECOMPOSING SILOXANES)

Paper
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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97-1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby call to the attention of the U.S. Patent and Trademark Office the references listed on the attached PTO-1449 form.

of the references listed on the PTO-1449 form, the following were cited during original prosecution of the application corresponding to the above patent.

U.S. Patent No. 3,806,224 to MacChesney et al.
U.S. Patent No. 3,823,995 to Carpenter
U.S. Patent No. 3,932,162 to Blankenship
U.S. Patent No. 4,472,510 to January
U.S. Patent No. 4,501,602 to Miller et al.
Japanese Patent Application Serial No. 60-90838

Serial No. 5,043,002

In addition, the PTO-1449 form lists the following references:

U.S. Patent No. 2,269,059 to McLachlan;
U.S. Patent No. 2,272,342 to Hyde;
U.S. Patent No. 3,086,851 to Wagner;
U.S. Patent No. 3,303,115 to Nitsch;
U.S. Patent No. 3,826,560 to Schulz;
U.S. Patent No. 4,113,844 to Tokimoto et al.;
U.S. Patent No. 4,148,621 to Gliemeroth;
U.S. Patent No. 4,156,689 to Ashby et al.;
U.S. Patent No. 4,689,420 to Baile et al.;
U.S. Patent No. 4,975,102 to Edahiro;
UK Patent Application No. 2,049,641;
UK Patent Application No. 2,083,806;
UK Patent Application No. 1,562,966;
UK Patent Application No. 1,415,141;
European Patent Application No. 38,900;
European Patent Application No. 436,185;
European Patent Application No. 103,448;
PCT Publication No. WO 90/10596;
German Patent No. 3,016,010;
Canadian Patent No. 1,179,477;
Japanese Patent Application No. 89-138,145;
Japanese Patent Application No. 62-108748;
Japanese Patent Application No. 54-2653;
Japanese Patent Application No. 59207845;
Japanese Patent Application No. 83003981;
Japanese Patent Application No. 63310744;
Japanese Patent Application No. 59131537;
Japanese Patent Application No. 84000455;
Japanese Patent Application No. 51-56641;

Japanese Patent Application No. 84025741;
Japanese Patent Application No. 58213638;
Japanese Patent Application No. 84011536;
Japanese Patent Application No. 85003017;
Japanese Patent Application No. 57170835;
Japanese Patent Application No. 61026526;
Japanese Patent Application No. 2145448;
Japanese Patent Application No. 1,124,805;
Japanese Patent Application No. 60-90836;
Japanese Patent Application No. 60-90837;

Davidson et al., "Kinetics of the Oxidation of Octamethylcyclotetrasiloxane in the Gas Phase," J. Chem. Soc., 72(4):1088-95 (1975);

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Kantor, et al., "The Mechanism of the Acid- and Base-catalyzed Equilibration of Siloxanes," J. Am. Chem. Soc., 76:5190-96 (1954);

Kendrick, T.C., "The Acid-catalysed Polymerisation of Cyclosiloxanes. Part I. The Kinetics of the Polymerisation of Octamethylcyclotetrasiloxane Catalysed by Anhydrous Ferric Chloride-Hydrogen Chloride," J. Chem. Soc., pp. 2027-35 (1965);

Scott, D.W., "Equilibria Between Linear and Cyclic Polymers in Methylpolysiloxanes," J. Am. Chem. Soc., 68:2294-98 (1946);

Hunter et al., "Organic-Silicon Polymers. The Cyclic Dimethyl Siloxanes," J. Am. Chem. Soc., 68:667-72 (1946);

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Hunter et al., "Organosilicon Polymers. II. The Open Chain Dimethylsiloxanes With Trimethylsiloxy End Groups," J. Am. Chem. Soc., 68:2284-90 (1946);

Flanigan, O.L., "Vapor Pressures of Poly(dimethylsiloxane) Oligomers," Journal of Chemical and Engineering Data 31(3):266-72 (1986);

Wilcock, D.F., "Vapor Pressure-Viscosity Relations in Methylpolysiloxanes," J. Am. Chem. Soc., 68:691-96 (1946);

Hurd, C.B., "Studies on Siloxanes. I. The Specific Volume and Viscosity in Relation to Temperature and Constitution," J. Am. Chem. Soc., 69:364-70 (1946);

Johnson, G.C., "Flow Characteristics of Linear, End-Blocked Dimethylpolysiloxane Fluids," J. Chem. Eng. Data 6(2):275-78 (1961);

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Marsh, K.N., "Mutual Diffusion in Octamethylcyclotetrasiloxane Mixtures," pp. 894-901 (1967);

Vogel et al., "Mutual Solubilities in Water-Permethylsiloxane Systems," Journal of Chemical and Engineering Data 9(4):599-601 (1964);

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Damm et al., "Sensitivity of the Siloxane Linkage Towards Acidolytic Cleavage," Angew. Chem. Internat. Edit. 3(4):1-13 (1964);

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Lipowitz et al., "Flammability of Poly(dimethylsiloxanes). II. Flammability and Fire Hazard Properties," J. Fire and Flammability 7:504-29 (1976);

Silicon Compounds Register and Review, Petrarch Systems, Inc. (1994);

Kashan, W.E., "The Dependence of Flame Temperature on Mass Burning Velocity," Sixth Symposium (International) on Combustion, Reinhold Publishing Corp., N.Y. (1975) pp. 134-143; and

Fristom & Westernberg, Flame Structure, McGraw-Hill (1965) pp. 172-74.

Respectfully submitted,

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Dated: April 17, 1997

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 15275/8610 (Dobbins 2-1)	PATENT NO. 5,043,002
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Dobbins et al.	
(use several sheets if necessary) 61 1997 (PTO-1449)		DATE OF PATENT August 27, 1991	GROUP

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE
	56	JP 57170835		Japan			
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	59	JP 1124805		Japan			
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	62	Damm et al., "Sensitivity of the Siloxane Linkage Towards Acidolytic Cleavage," <i>Angew. Chem. internat. Edit.</i> 3(4):1-12 (1964)
	63	Lipowitz, J., "Flammability of Poly(Dimethylsiloxanes). I. A Model For Combustion," <i>J. Fire & Flammability</i> 7:482-503 (1976)
	64	Lipowitz et al., "Flammability of Poly(Dimethylsiloxanes). II. Flammability and Fire Hazard Properties," <i>J. Fire & Flammability</i> 7:504-29 (1976)
	65	Silicon Compounds Register and Review, (1984)
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	67	Fristom & Westenberg, Flame Structure, McGraw-Hill (1965) pp. 170-74

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449) 1997</p>	ATTY. DOCKET NO. 15275/8610 (Dobbins 2-1)	PATENT NO. 5,043,002
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	2	2,272,342	02/10/42	Hyde			
	3	3,086,851	04/23/63	Wagner			
	4	3,303,115	02/07/67	Nitsche			
	5	3,806,224	04/23/74	MacChesney			
	6	3,823,995	07/16/74	Carpenter			
	7	3,826,560	07/30/74	Schulz			
	8	3,932,162	01/13/76	Blankenship			

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		17	Davidson et al., "Kinetics of the Thermolysis of Octamethylcyclotetrasiloxane in the Gas Phase," J. Chem. Soc., 71(11):2260-65 (1975)
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<p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT APR 6 (use several sheets if necessary) (PTO-1499) 1997 TRADEMARKS</p>	ATTY. DOCKET NO. 15275/8610 (Dobbins 2-1)	PATENT NO. 5,043,002
	APPLICANT Dobbins et al.	
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23	4,156,689	05/29/79	Ashby et al.			
24	4,472,510	09/18/84	January			
25	4,501,602	02/26/85	Miller et al.			
26	4,689,420	08/25/87	Baile et al.			
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32	JP 62-108748		Japan			
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